

In the claims:

Please amend the claims as indicated herein. This listing of claims will replace all previous listings.

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (New) A rotor comprising:

an inner tubular cylinder and one or more concentric tubular cylinders, each tubular cylinder being divided into helical trapezoids by helical pieces placed between the tubular cylinders;

wherein the helical pieces have a helical shape on an entrance side of the rotor and an inverse helical shape on an extraction side of the rotor; and

wherein the helical trapezoids of adjacent concentric tubular cylinders are mounted out of line.

6. (New) The rotor of claim 5, wherein the entrance side and the extraction side are each 50% of the length of the rotor.
7. (New) The rotor of claim 5, wherein an overall surface area of the helical pieces is at least twice as much as an overall frontal surface area of the rotor.

8. (New) The rotor of claim 5, wherein outer perimeters of the helical trapezoids are shut down.